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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/898,650	07/03/2001	John G. Apostolopoulos		10012168	9591	
7590 01/23/2007 HEWLETT-PACKARD COMPANY			ſ	EXAMINER		
Intellectual Property Administration				KOENIG, ANDREW Y		
P.O. Box 2724 Fort Collins, C	**		Γ	ART UNIT PAPER NUMBER		
				2623		
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SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE		DELIVERY MODE		
3 MC	ONTHS	01/23/2007		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summer		Application No.	Applicant(s)					
		09/898,650	APOSTOLOPOULOS ET AL.					
	Office Action Summary	Examiner	Art Unit					
		Andrew Y. Koenig	2623					
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address					
WHI( - Exte after - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D. (35 U.S.C. § 133).					
Status								
1)	Responsive to communication(s) filed on 26 Se	entember 2006						
	This action is <b>FINAL</b> . 2b) ☐ This action is non-final.							
3)								
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Disposit	ion of Claims	,						
_		ennlication						
7)63	Claim(s) <u>1-12 and 14-24</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.							
5)□	Claim(s) is/are allowed.							
·	Claim(s) is/are allowed.  Claim(s) <u>1-12, 14-24</u> is/are rejected.							
7)	Claim(s) is/are objected to.	·						
·	Claim(s) are subject to restriction and/or	e election requirement						
	•	election requirement.						
	ion Papers							
-	The specification is objected to by the Examiner							
10)	The drawing(s) filed on is/are: a)☐ acce	epted or b) $\square$ objected to by the ${ t E}$	Examiner.					
	Applicant may not request that any objection to the o	•	` '					
	Replacement drawing sheet(s) including the correcti							
11)	The oath or declaration is objected to by the Ex-	aminer. Note the attached Office	Action or form PTO-152.					
Priority (	ınder 35 U.S.C. § 119							
	Acknowledgment is made of a claim for foreign All b) Some * c) None of:	•	-(d) or (f).					
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents							
	3. Copies of the certified copies of the priori		ed in this National Stage					
	application from the International Bureau	* **						
^ \$	See the attached detailed Office action for a list of	of the certified copies not receive	d.					
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Attachmen 1)   Notic	e of References Cited (PTO-892)	A) Internitory Commencer	(PTO 413)					
	e of Braftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Summary Paper No(s)/Mail Da						
3) 🔲 Inforr	nation Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P	atent Application					
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### **DETAILED ACTION**

## Response to Arguments

1. Applicant's arguments with respect to claims 1-12 and 14-24 have been considered but are most in view of the new ground(s) of rejection.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-3, 5-10, 12, 14-20, and 22-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over EP 0915598 A2 to Matsushita Electric Industrial Co., LTD (Matsushita) in view of U.S. Patent 7,062,250 to Kosaka.

Regarding claim 1, Matsushita teaches multimedia clients (16), a network connection for receiving a plurality of multiple description bitstreams (col. 4-5, II. 58-4), which reads on a multiple description receiving portion, wherein the client inherently has a memory coupled to the receiving portion to store the plural bitstreams in respective portions, in order to process the signals separately from different network paths (col. 5-6, II. 42-21). Matsushita teaches a reconstructing the components into a reconstructed stream (col. 5-6, II. 42-21), which reads on a synchronization module coupled to the memory and adapted to blend the multiple bitstreams and a decoder for decoding the

plural bitstreams. Matsushita teaches the client sending messages to the push engines which determines appropriate operation characteristics of the client in that the client enables the push engines to compensate for network congestion (col. 9, II. 37-41), which reads on a source control module coupled to the synchronization module, wherein the module determines appropriate operation characteristics of the client. Further, Matsushita shows a computer (16), which clearly has a user interface device coupled to the decoder, wherein the interface presents the bitstreams to the user (col. 1, II. 36-44, col. 5, II.10-12).

Matsushita teaches a source control module to make decisions on how many of the multiple bitstreams to receive (col. 9, Il. 37-41), but Matsushita is silent on monitoring power consumption by said client, wherein said client uses information about said power consumption to make a decision. Kosaka teaches monitoring power consumption by said client (fig. 1, label 11, col. 2, Il. 48-56), wherein said client uses information about said power consumption to make a decision (col. 4, Il. 5-19, see also fig. 3: Kosaka teaches sending and receiving different amounts of data based upon the power of the client device, such as removing the video and maintaining the voice communication (col. 4-5, Il. 64-6). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Matsushita by monitoring power consumption by said client, wherein said client uses information about said power consumption to make a decision as taught by Kosaka in order to reduce power consumption and increase communication periods (Kosaka: col. 1, Il. 41-44).

Regarding claim 2, Matsushita is silent on a mobile client. In analogous art, Kosaka teaches receiving video data over a channel of a wireless network, wherein the devices can be cellular phones (col. 2, II. 34-38, col 3, II. 29-38), which equates to a mobile device. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Matsushita by using a mobile device as taught by Kosaka in order to provide video in different locations and thereby increasing desirable functionality to the user.

Regarding claim 3, Matsushita teaches a channel quality monitor for monitoring characteristics of channels from which the bitstreams are received (col. 9, ll. 37-41).

Regarding claim 5, Matsushita teaches a display device on a computer (label 16).

Regarding claim 6, Matsushita teaches presenting the stream (col. 10, II. 20-22, col. 11, II. 13-18), wherein the stream can be audio and/or video (col. 11, II. 13-18), and must inherently have an audio output in order to present the stream to the user.

Regarding claim 7, Matsushita teaches transmitting information, related to the operation characteristics of the client to the push engines (col. 9, II. 37-41).

Regarding claims 8, Matsushita teaches multimedia clients (16), a network connection for receiving a plurality of multiple description bitstreams (col. 4-5, II. 47-4), which reads on receiving a first and second multiple description bitstreams at the client. Matsushita teaches the format of the data as using video, such as MPEG (col. 7, II. 12-14), which inherently stores and decodes the bitstreams for presentation (col. 11, II. 13-17). Matsushita teaches the client sending messages to the push engines which determines appropriate operation characteristics of the client in that the client enables the push engines to compensate for network congestion (col. 9, II. 37-41), which reads on a source control module coupled to the synchronization module, wherein the module determines appropriate operation characteristics of the client. Further, Matsushita shows a computer (16), for presenting the bitstreams to the user (col. 1, II. 36-44, col. 5, II.10-12).

Matsushita teaches a source control module to make decisions on how many of the multiple bitstreams to receive (col. 9, II. 37-41), but Matsushita is silent on monitoring power consumption by said client, wherein said client uses information about said power consumption to make a decision. Kosaka teaches monitoring power consumption by said client (fig. 1, label 11, col. 2, II. 48-56), wherein said client uses information about said power consumption to make a decision (col. 4, II. 5-19, see also fig. 3: Kosaka teaches sending and receiving different amounts of data based upon the power of the client device, such as removing the video and maintaining the voice communication (col. 4-5, II. 64-6). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Matsushita by

monitoring power consumption by said client, wherein said client uses information about said power consumption to make a decision as taught by Kosaka in order to reduce power consumption and increase communication periods (Kosaka: col. 1, II. 41-44).

Regarding claim 9, Matsushita is silent on a mobile client. In analogous art, Kosaka teaches receiving video data over a channel of a wireless network, wherein the devices can be cellular phones (col. 2, II. 34-38, col 3, II. 29-38), which equates to a mobile device. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Matsushita by using a mobile device as taught by Kosaka in order to provide video in different locations and thereby increasing desirable functionality to the user.

Regarding claim 10, Matsushita inherently stores the first and second bitstreams in respective memory portions in order to prevent data from being overwritten by another packet before being used.

Regarding claim 12, Matsushita teaches determining operation characteristics by monitoring the characteristics of channels on which said first and second streams are received (col. 9, II. 37-41).

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Regarding claim 14, Matsushita teaches adjusting operation characteristics by providing information to the push servers to accommodate for network congestion (col. 9, II. 31-54).

Regarding claim 15, Matsushita teaches presenting the stream, wherein the stream is video (col. 11, II. 13-18), which inherently uses a display.

Regarding claim 16, Matsushita teaches presenting the stream, wherein the stream is audio (col. 11, II. 13-18), which inherently uses an audio output device.

Regarding claim 17, Matsushita teaches adjusting operation characteristics by providing information to the push servers to accommodate for network congestion (col. 9, II. 31-54), which reads on transmitting information related to appropriate operation characteristics from the client to components (push servers) of a network to which the client is adapted to be communicatively coupled.

Regarding claim 18, Matsushita teaches multimedia clients (16), a network connection for receiving a plurality of multiple description bitstreams (col. 4-5, II. 58-4), which reads on a multiple description receiving portion, wherein the client inherently has a memory coupled to the receiving portion to store the plural bitstreams in respective portions, in order to process the signals separately from different network paths (col. 5-6, II. 42-21). Matsushita teaches a reconstructing the components into a reconstructed

stream (col. 5-6, II. 42-21), which reads on a synchronization module coupled to the memory and adapted to blend the multiple bitstreams and a decoder for decoding the plural bitstreams. Matsushita teaches the client sending messages to the push engines which determines appropriate operation characteristics of the client in that the client enables the push engines to compensate for network congestion (col. 9, II. 37-41), which reads on a source control module coupled to the synchronization module, wherein the module determines appropriate operation characteristics of the client.

Further, Matsushita shows a computer (16), which clearly has a user interface device coupled to the decoder, wherein the interface presents the bitstreams to the user (col. 1, II. 36-44, col. 5, II.10-12, col. 11, II. 13-18).

Matsushita teaches a source control module to make decisions on how many of the multiple bitstreams to receive (col. 9, II. 37-41), but Matsushita is silent on monitoring power consumption by said client, wherein said client uses information about said power consumption to make a decision. Kosaka teaches monitoring power consumption by said client (fig. 1, label 11, col. 2, II. 48-56), wherein said client uses information about said power consumption to make a decision (col. 4, II. 5-19, see also fig. 3: Kosaka teaches sending and receiving different amounts of data based upon the power of the client device, such as removing the video and maintaining the voice communication (col. 4-5, II. 64-6). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Matsushita by monitoring power consumption by said client, wherein said client uses information about

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said power consumption to make a decision as taught by Kosaka in order to reduce power consumption and increase communication periods (Kosaka: col. 1, II. 41-44).

Regarding claim 19, Matsushita is silent on a mobile client. In analogous art, Kosaka teaches receiving video data over a channel of a wireless network, wherein the devices can be cellular phones (col. 2, II. 34-38, col 3, II. 29-38), which equates to a mobile device. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Matsushita by using a mobile device as taught by Kosaka in order to provide video in different locations and thereby increasing desirable functionality to the user.

Regarding claim 20, Matsushita teaches a channel quality monitor for monitoring characteristics of channels from which the bitstreams are received (col. 9, II. 37-41).

Regarding claim 22, Matsushita teaches presenting the stream, wherein the stream is video (col. 11, II. 13-18), which inherently uses a display.

Regarding claim 23, Matsushita teaches presenting the stream, wherein the stream is audio (col. 11, II. 13-18), which inherently uses an audio output device.

Regarding claim 24, Matsushita teaches adjusting operation characteristics by providing information to the push servers to accommodate for network congestion (col.

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9, II. 31-54), which reads on transmission means coupled to said synchronization module, wherein the transmission means transmits information related to operation characteristics from the client to components (push servers) of a network to which the client is adapted to be communicatively coupled.

4. Claims 4, 11, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over EP 0915598 A2 to Matsushita Electric Industrial Co., LTD (Matsushita) and U.S. Patent 7,062,250 to Kosaka in view of "Error-Resilient Video Compression" (Apostolopoulos).

Regarding claim 4, Matsushita teaches audio and video, MPEG, JPEG, and H.261, but is silent on either MPEG-4 Version 2 with NEWPRED or H.263 Version 2 with RPS. In analogous art, Apostolopoulos teaches an error resilient encoder using MPEG-4 Version 2 with NEWPRED and H.263 Version 2 with RPS (pg. 185-186. section 3.4). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Matsushita by using MPEG-4 Version 2 with NEWPRED or H.263 Version 2 with RPS as taught by Apostolopoulos in order to benefit from the already present error resilience capabilities of the standardized compression algorithms.

Regarding claim 11, Matsushita teaches audio and video, MPEG, JPEG, and H.261, but is silent on either MPEG-4 Version 2 with NEWPRED or H.263 Version 2

with RPS. In analogous art, Apostolopoulos teaches an error resilient encoder using MPEG-4 Version 2 with NEWPRED and H.263 Version 2 with RPS (pg, 185-186, section 3.4). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Matsushita by using MPEG-4 Version 2 with NEWPRED or H.263 Version 2 with RPS as taught by Apostolopoulos in order to benefit from the already present error resilience capabilities of the standardized compression algorithms.

Regarding claim 21, Matsushita teaches audio and video, MPEG, JPEG, and H.261, but is silent on either MPEG-4 Version 2 with NEWPRED or H.263 Version 2 with RPS. In analogous art, Apostolopoulos teaches an error resilient encoder using MPEG-4 Version 2 with NEWPRED and H.263 Version 2 with RPS (pg, 185-186, section 3.4). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Matsushita by using MPEG-4 Version 2 with NEWPRED or H.263 Version 2 with RPS as taught by Apostolopoulos in order to benefit from the already present error resilience capabilities of the standardized compression algorithms.

### Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew Y. Koenig whose telephone number is (571) 272-7296. The examiner can normally be reached on M-Fr (8:30 - 5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Miller can be reached on (571)272-7353. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Andrew Y Koenig Primary Examiner Art Unit 2623

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